

Bureau of Environmental Health  
 8930 Stanford Blvd. Columbia, MD 21045  
 (410) 313-2640 Fax (410) 313-2648  
 TDD (410) 313-2323 Toll Free 1-866-313-6300  
 website: www.hchealth.org

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 9/18/14  
 INSTALLATION  
 APPROVAL  
 DATE: \_\_\_\_\_

**ONSITE SEWAGE DISPOSAL SYSTEM**

P 554636

**PERMIT**

A Tank Replacement Location

**Tank Replacement Location**

PROPERTY ADDRESS: 2822 Bridal Wreath Court

SUBDIVISION: Belle Haven Estates LOT: 16 TAX ID: 04-373804

CONTRACTOR: Hatfield's Equipment EMAIL: ken@hatfieldsequipment.com

CONTRACTOR ADDRESS: P.O. Box 519, Annapolis Junction, MD 20701 PHONE: 301-490-4289

PROPERTY OWNER: Todd Stup EMAIL: \_\_\_\_\_

OWNER ADDRESS: 2822 Bridal Wreath Court, Woodbine, MD 21797 PHONE: \_\_\_\_\_

SEPTIC TANK SIZE (GALLONS): \_\_\_\_\_

BAT UNIT: \_\_\_\_\_ STATIC HEAD (FEET): \_\_\_\_\_

NUMBER OF BEDROOMS: \_\_\_\_\_ HOUSE SQ. FT. \_\_\_\_\_ APPLICATION RATE: \_\_\_\_\_

DISTRIBUTION SYSTEM: GRAVITY FED  LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: _____	INLET DEPTH: _____
	TRENCH WIDTH: _____	MAXIMUM BOTTOM DEPTH: _____
	MINIMUM SPACE BETWEEN TRENCHES: _____	EFFECTIVE AREA BEGINNING DEPTH: _____
LOCATION:	Stake garage corners for layout inspection. Confirm near end of LP tank for layout inspection. Water-tight test of septic tank will be required after tank is set in new location.	
NOTES:		

ISSUED BY: Robert Bricker  ISSUE DATE: \_\_\_\_\_ EXPIRATION DATE: 9/18/15

\*Permit Revised on 8/22/14

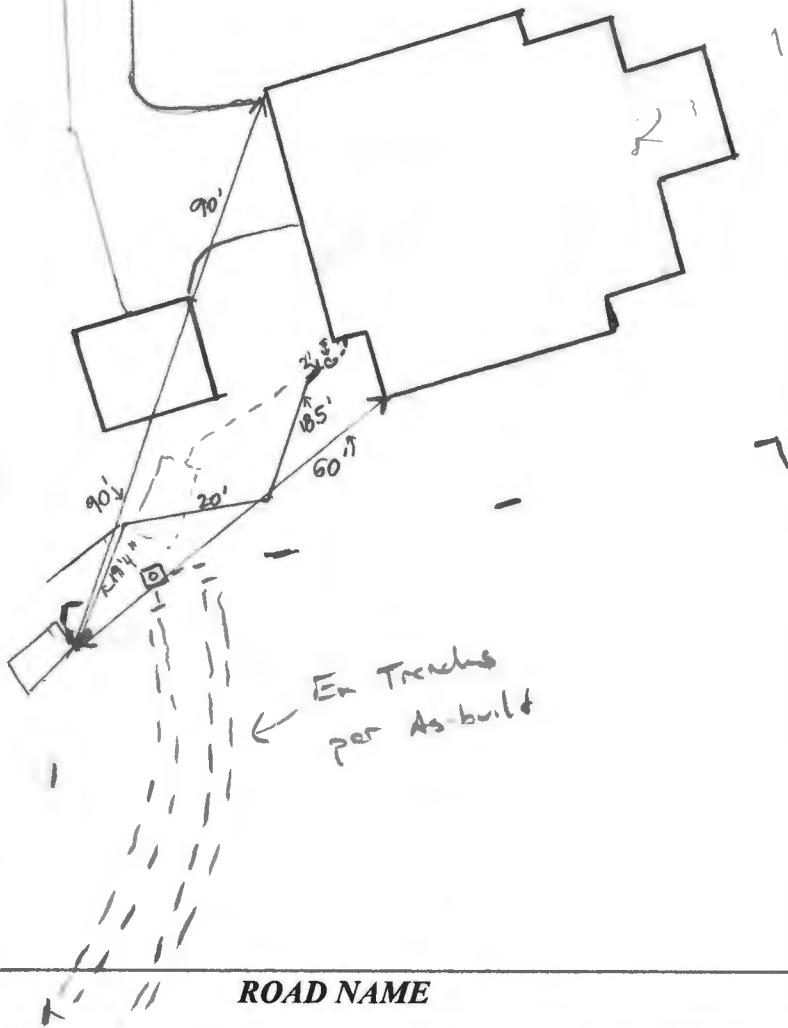
- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.**

**PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.**

**CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

NOT TO SCALE



**TRENCH/DRAINFIELD DATA**

WIDTH      INLET      BOTTOM

NUMBER OF TRENCHES \_\_\_\_\_

TOTAL LENGTH \_\_\_\_\_

ABSORPTION AREA \_\_\_\_\_

DISTRIBUTION BOX LEVEL \_\_\_\_\_

DISTRIBUTION BOX BAFFLE \_\_\_\_\_

DISTRIBUTION BOX PORT \_\_\_\_\_

**SEPTIC TANK DATA**

SEPTIC TANK 1 LEVEL yes

MANUFACTURER Babylon

CAPACITY 2000 GAL

SEAM LOC TOP

TANK LID DEPTH 3 ft

BAFFLES YES

BAFFLE FILTER N/A

MANHOLE LOC FRONT + BACK

6" PORT LOC NONE

WATERTIGHT TEST \_\_\_\_\_

SLOTTED YES

DATE ON LID 7/26/14

PUMP/SEPTIC TANK LEVEL \_\_\_\_\_

MANUFACTURER \_\_\_\_\_

CAPACITY \_\_\_\_\_ GAL

SEAM LOC \_\_\_\_\_

TANK LID DEPTH \_\_\_\_\_

BAFFLES \_\_\_\_\_

BAFFLE FILTER \_\_\_\_\_

MANHOLE LOC \_\_\_\_\_

6" PORT LOC \_\_\_\_\_

WATERTIGHT TEST \_\_\_\_\_

SLOTTED \_\_\_\_\_

DATE ON LID T

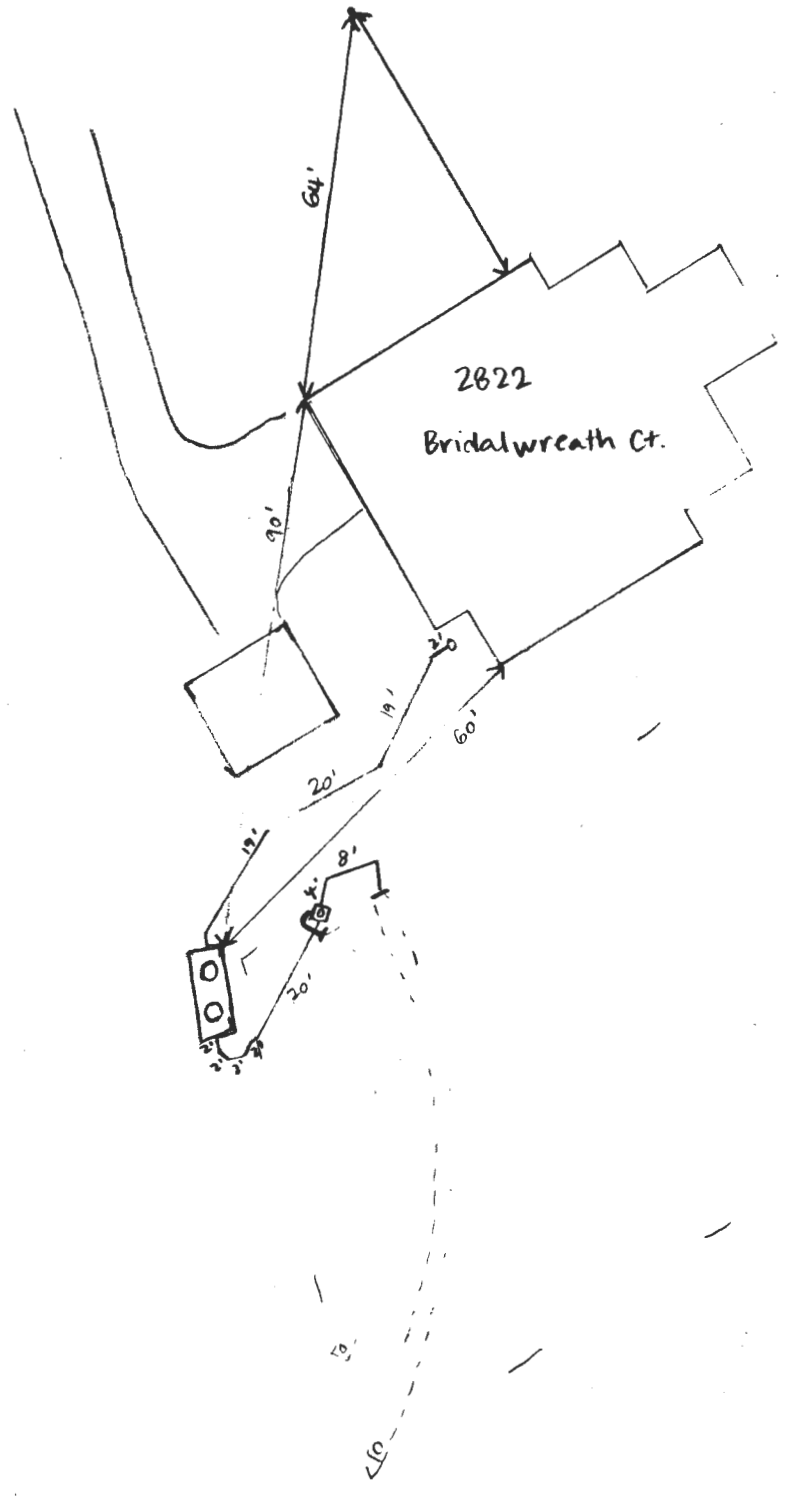
PRE-CONSTRUCTION:

9/29/14 See attached memo dated 9/29/14 (KW)

INSTALLATION: 11/19/14 Tank installed as per plans. All piping connected with 1 1/2" Fall. Distribution box moved 4 ft. into trench area.

FINAL INSPECTOR \_\_\_\_\_ DATE OF APPROVAL \_\_\_\_\_

HO-95-0669



# FILE INQUIRY NOTES

2822 Bridal Wreath Ct. - Lot 16 Belle Haven East

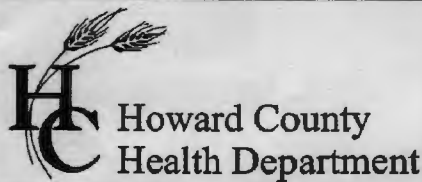
DATE

RESULTS OF REVIEW FOR FILE

9/29/14 Meeting on-site w/ Septe Contractor, walked thru  
area of proposed Detached garage (was flagged in field)  
Should be able to move tank (or place new tank)  
into upper corner of SRA, just above upper trench.  
Pipe would be rerouted around proposed garage.  
New tank will set inside SRA zone (should be  
OK in visible area). Need plan showing proposals.  
→ If existing to be moved, must be  
H<sub>2</sub>O Tight tested!

(K)





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[www.hchealth.org](http://www.hchealth.org)  
 Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 9-8-21 **ONSITE SEWAGE DISPOSAL SYSTEM** P 578142

APPROVAL DATE: 09/22/2021 **PERMIT: CONSTRUCTION** A \_\_\_\_\_

PROPERTY ADDRESS: 2822 BRIDALWREATH COURT, WOODBINE, MD 21797

SUBDIVISION: BELLE HAVEN ESTATES LOT: 16 TAX ID: 04-373804

CONTRACTOR: Hatfields Equipment EMAIL: \_\_\_\_\_

CONTRACTOR ADDRESS: P.O. Box 591 Annapolis Junction, MD 20781 PHONE: 301-490-4289

PROPERTY OWNER: TODD STUP EMAIL: tstup@bflooring.com

OWNER ADDRESS: 2822 BRIDALWREATH COURT, WOODBINE, MD 21797 PHONE: (301)440-5180

SEPTIC TANK SIZE (GALLONS): 2000 EXISTING TANK MANUFACTURER: N.A.

PUMP MODEL: N.A. PUMP SIZE N.A. PUMP TANK CAPACITY: N.A.

DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>63</u>	INLET DEPTH: <u>4.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4.0</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	INSTALL SOLID PIPE FROM DISTRIBUTION BOX TO INLET OF NEW TRENCH INSTALL 63-FT NEW TRENCH AT LEAST 10 FEET DOWNSLOPE OF EXISTING TRENCH 'B'. START NEW TRENCH AT SDA BOUNDARY. IT IS EXTREMELY IMPORTANT TO CONSERVE SDA SPACE.	

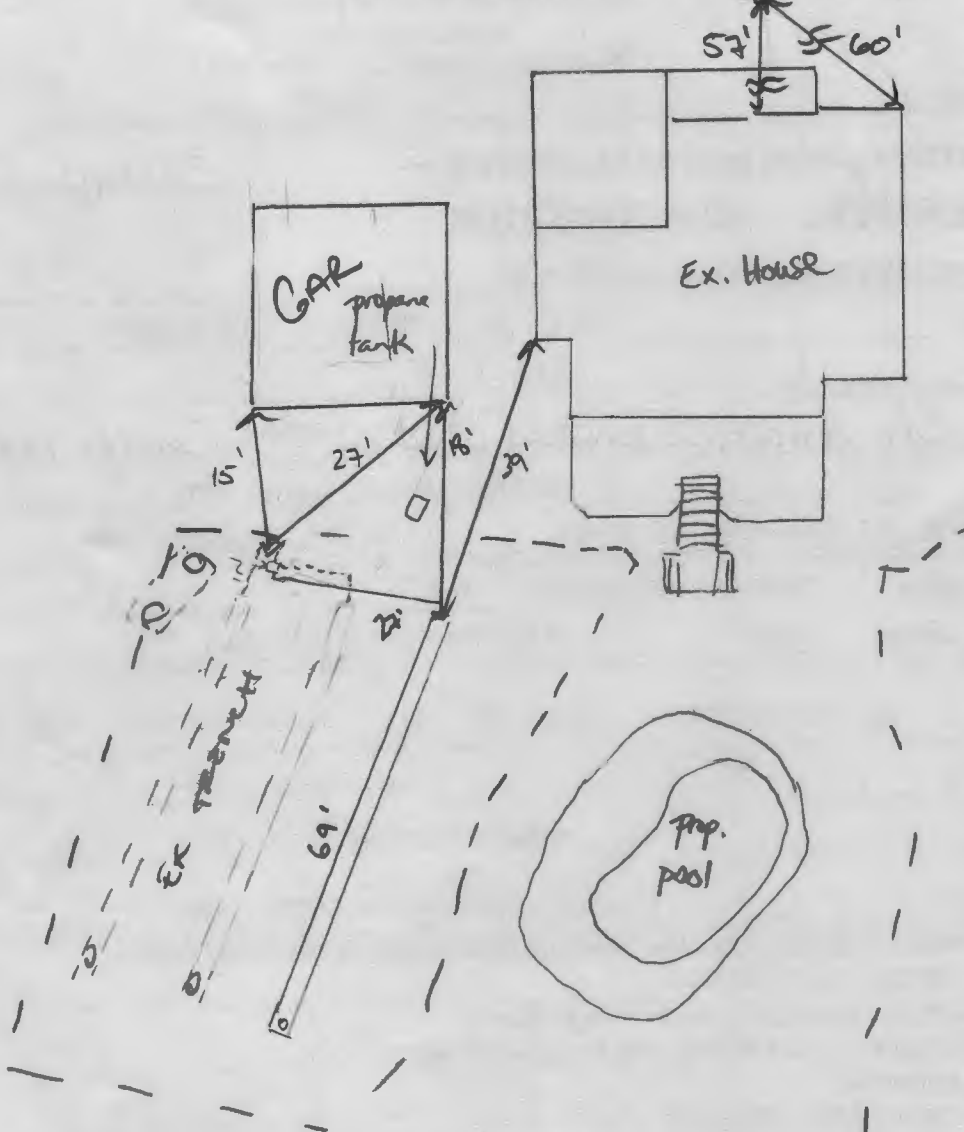
ISSUED BY: R BRICKER ISSUE DATE: \_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADE FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM  
 ELECTRICAL PERMIT ISSUED E N.A.
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.  
 PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.  
 CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

NOT TO SCALE 1" = 30'

W HO-95-0669



**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
3	4'	7'

NUMBER OF TRENCHES 1 NEW 2 EX  
 TOTAL LENGTH + 69 F  
 ABSORPTION AREA + 207 SF + SIDE WALL  
 DISTRIBUTION BOX LEVEL SPEED  
 DISTRIBUTION BOX BAFFLE BACK  
 DISTRIBUTION BOX PORT YES

**SEPTIC TANK DATA**

**SEPTIC TANK 1 LEVEL** \_\_\_\_\_  
 MANUFACTURER \_\_\_\_\_  
 CAPACITY \_\_\_\_\_ GAL  
 SEAM LOC \_\_\_\_\_  
 TANK LID DEPTH \_\_\_\_\_  
 BAFFLES \_\_\_\_\_  
 BAFFLE FILTER \_\_\_\_\_  
 MANHOLE LOC \_\_\_\_\_  
 6" PORT LOC \_\_\_\_\_  
 WATERTIGHT TEST \_\_\_\_\_  
 SLOTTED \_\_\_\_\_  
 DATE ON LID \_\_\_\_\_

**PUMP/SEPTIC TANK LEVEL** \_\_\_\_\_  
 MANUFACTURER \_\_\_\_\_  
 CAPACITY \_\_\_\_\_ GAL  
 SEAM LOC \_\_\_\_\_  
 TANK LID DEPTH \_\_\_\_\_  
 BAFFLES \_\_\_\_\_  
 BAFFLE FILTER \_\_\_\_\_  
 MANHOLE LOC \_\_\_\_\_  
 6" PORT LOC \_\_\_\_\_  
 WATERTIGHT TEST \_\_\_\_\_  
 SLOTTED \_\_\_\_\_  
 DATE ON LID \_\_\_\_\_

EXISTING

ROAD NAME

**PRE-CONSTRUCTION:**

9/21/21 Could not determine location of second trench (probe only 3'). Contractor will use camera to find 2<sup>nd</sup> trench, then stake new 3<sup>rd</sup> trench 10' off and on contour. Early inspection on day of staking if possible so sanitarian can confirm contour. (S)

**INSTALLATION:**

09/27/2021 INSTALLED 1 x 63' TRENCH ~ 69' TOTAL. ~~AND EXISTING~~ TRENCH DOES NOT HAVE FALL FROM D BOX. CONTRACTOR TO REMEDIATE. (PM) UNCOVERED PIPE. PIPE HAS SLOTTING. REMOVED SPEED AND RESET OTHER SPEED LEVEL TO STATIC WATER LEVEL. NO WATER OR BIOMAT OBS. IN EX TR C/O. P

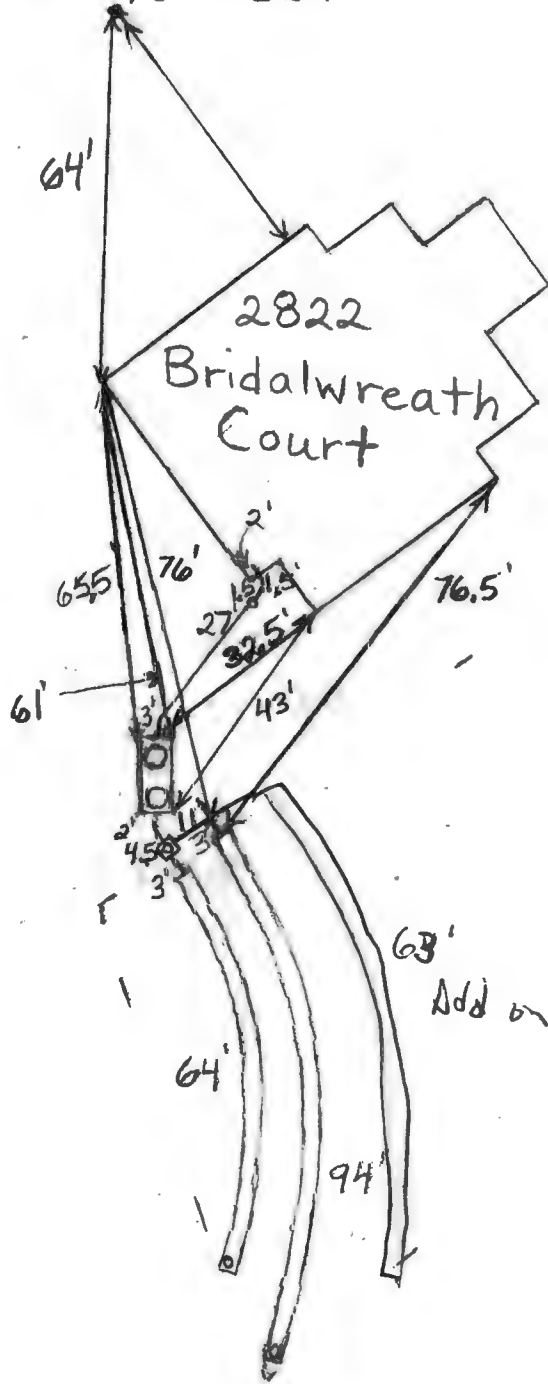
FINAL INSPECTOR

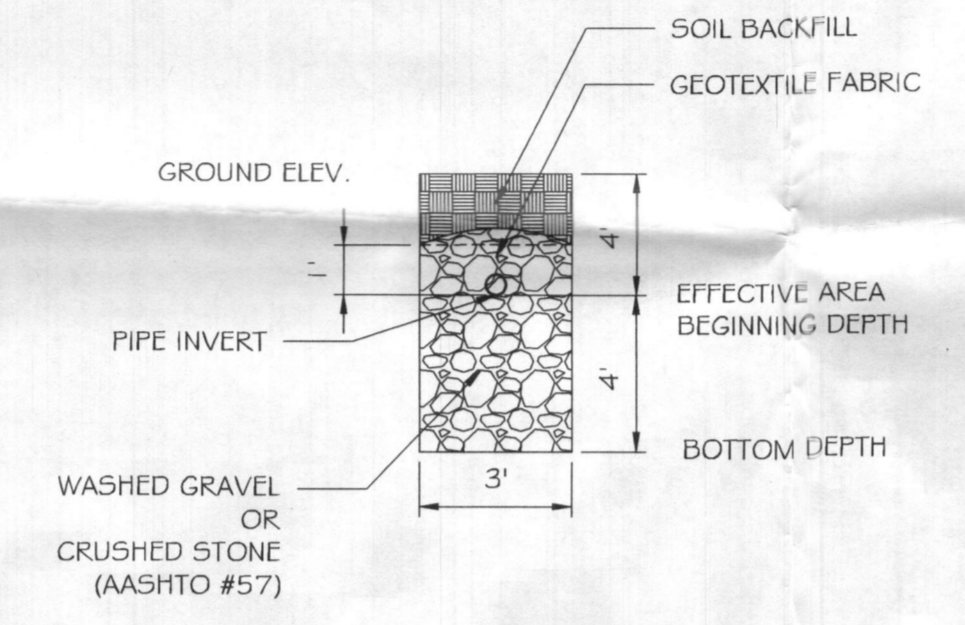
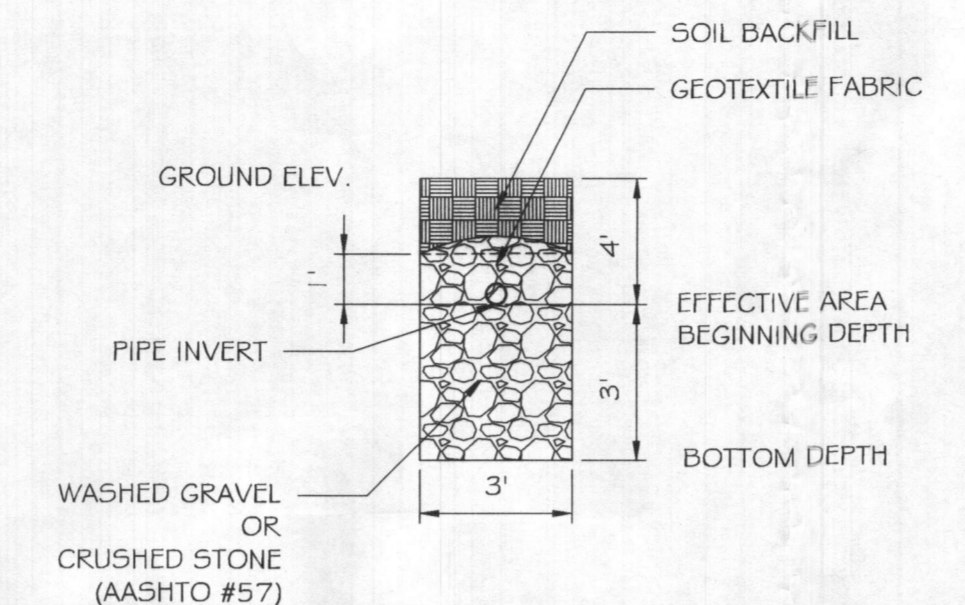
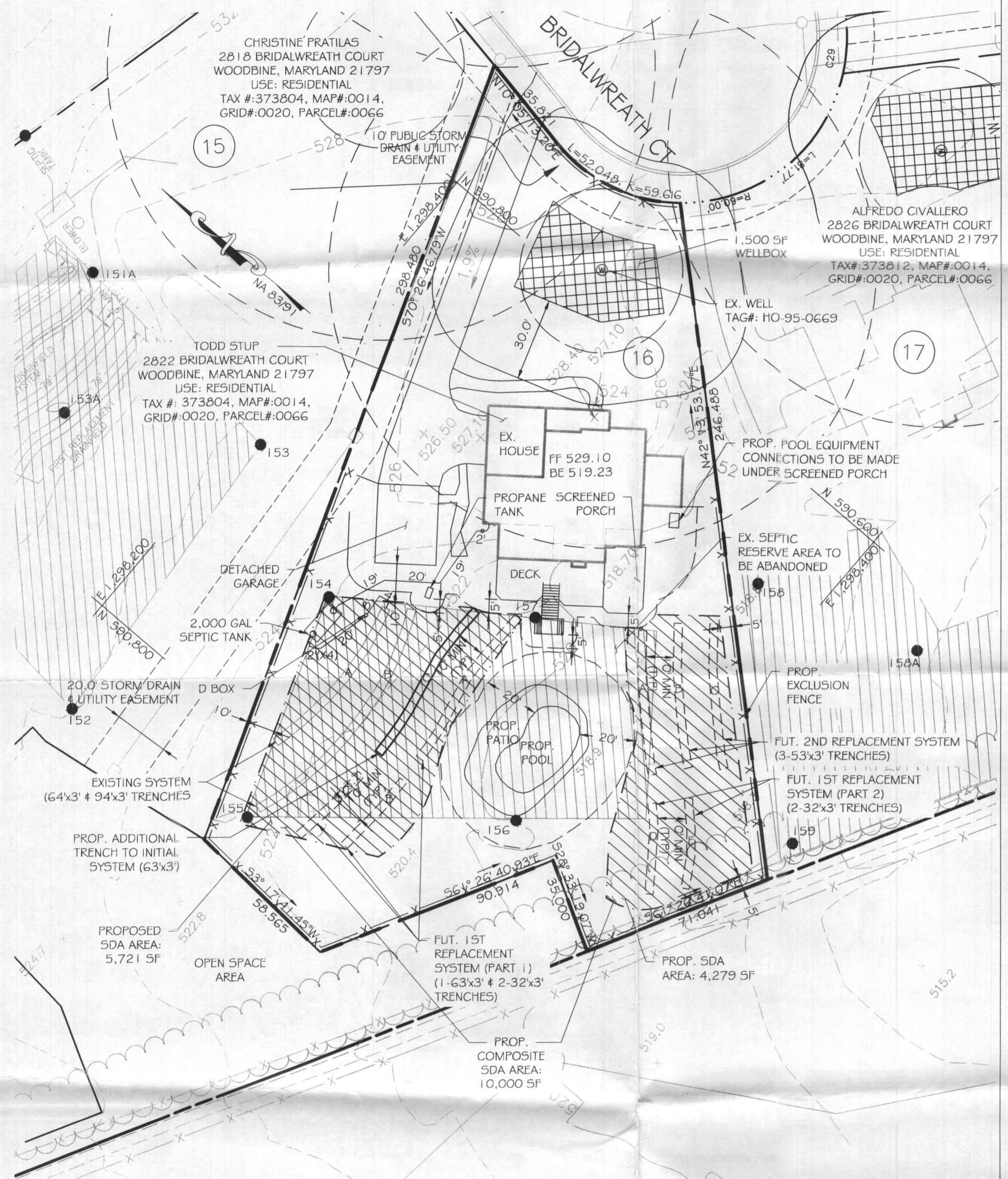
DATE OF APPROVAL

09/27/2021

HO-95-0669

1.5'  
1.5'





2ND REPLACEMENT TRENCHES (TYP.)  
N.T.S.

TRENCH LENGTH AND SPACING CALCULATIONS  
TRENCH DESIGN (G BDRM X 150 GPD/BDRM = 750 GPD)

INITIAL SYSTEM  
900 GPD / 0.8 GPD/5F (APP. RATE) = 1125  
USE 3' WIDE TRENCH W/ 36" OF GRAVEL BELOW PIPE EFFECTIVE AREA 4' - 7'  
1125 SF / 3' WIDTH = 375 LF x 0.50 = 187.5 LF MIN. TRENCH  
10' MIN. SPACING BETWEEN TRENCH EDGES

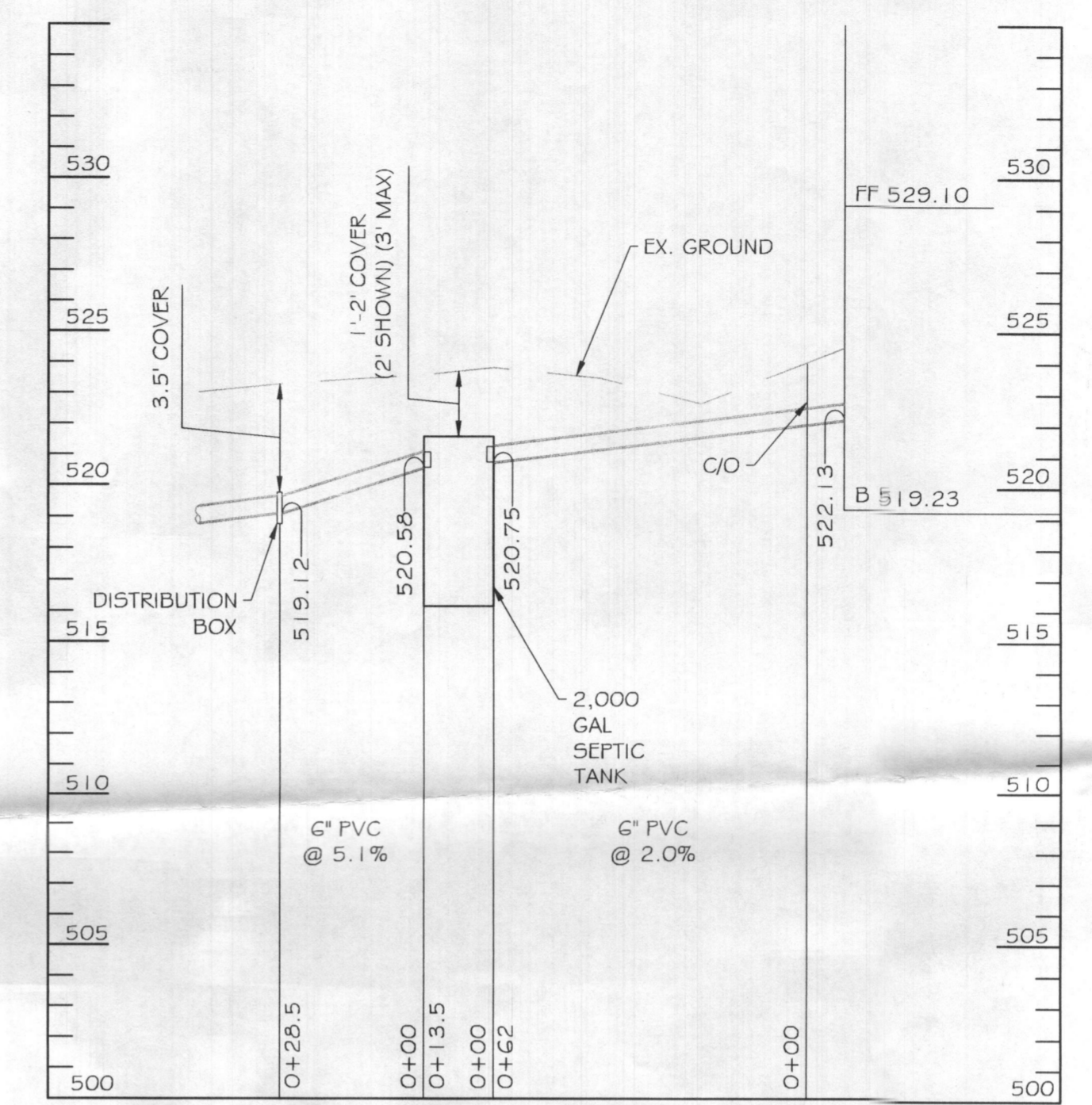
1ST REPLACEMENT SYSTEM  
900 GPD / 0.8 GPD/5F (APP. RATE) = 1125  
USE 3' WIDE TRENCH W/ 36" OF GRAVEL BELOW PIPE EFFECTIVE AREA 4' - 7'  
1125 SF / 3' WIDTH = 375 LF x 0.50 = 187.5 LF MIN. TRENCH  
10' MIN. SPACING BETWEEN TRENCH EDGES

2ND REPLACEMENT SYSTEM  
900 GPD / 0.8 GPD/5F (APP. RATE) = 1125  
USE 3' WIDE TRENCH W/ 48" OF GRAVEL BELOW PIPE EFFECTIVE AREA 4' - 8'  
1125 SF / 3' WIDTH = 375 LF x 0.42 = 157.5 LF MIN. TRENCH  
10' MIN. SPACING BETWEEN TRENCH EDGES

2 - 64' AND 1 - 94' TRENCHES FOR INITIAL SYSTEM  
3 - 63' LONG TRENCHES FOR FIRST REPLACEMENT SYSTEM  
3 - 53' LONG TRENCHES FOR SECOND REPLACEMENT SYSTEM

DRAWING LEGEND

- 500 - EXISTING GRADE
- 502 - PROPOSED LIMIT OF DISTURBANCE
- + 665.5 - PROP. SPOT ELEV./FLOW ARROW
- PROPOSED 20' SEPTIC RESERVE BUFFER
- EXISTING 30' WELL BUFFER
- EXISTING 100' WELL BUFFER
- PROPERTY LINE
- BUILDING RESTRICTION LINE
- EXISTING SEWAGE DISPOSAL AREA
- PROPOSED SEWAGE DISPOSAL AREA
- FENCE
- EXISTING WELL
- 174 - PASSED PERCOLATION TEST
- 127 - FAILED PERCOLATION TEST
- WELLBOX



- GENERAL NOTES:
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
  - THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
  - ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
  - THE WELL (TAG HO-95-0699) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
  - ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
  - EXISTING SYSTEM LOCATION HAVE BEEN FIELD LOCATED BY ERIK MARKS ON 4/21 SUPPLEMENTED WITH INFORMATION OBTAINED FROM THE HEALTH DEPARTMENT AND THE PROPERTY OWNER.
  - A SETBACK WAIVER IS REQUESTED TO REDUCE THE SDA TO PROPERTY LINE SETBACK TO 5'. LOCATIONS HAVE BEEN IDENTIFIED ON THE PLAN.
  - THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENT OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THIS AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
  - TOPOGRAPHY SHOWN IS AT TWO-FOOT CONTOUR INTERVALS (ONE-FOOT INTERVALS ARE REQUIRED FOR MOUND SYSTEMS AND SYSTEMS WITH PIPE DEPTH LESS THAN TWO FEET) AND HAS BEEN FIELD VERIFIED OR FIELD RUN.
  - ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
  - THE LOT SHOWN HEREIN COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
  - THE 1ST REPLACEMENT SYSTEM WILL REQUIRE A PRESSURIZED DISTRIBUTION DESIGN AND A PUMP TANK AND PUMP WILL BE NEEDED AT TIME OF REPAIR.
  - A PROFESSIONAL SURVEYOR OR ENGINEER MUST MARK THE PROPERTY LINE WHEN THE TRENCHES ARE BEING INSTALLED IN AREAS WHERE THE PROPERTY LINE SETBACK HAS BEEN REDUCED.

Approved Septic System Plan  
Howard County Health Department  
Install solid pipe from D-Box to new trench.  
Install 3' x 63' new trench, as illustrated.  
Bridger Signature 8/18/2021 Date

LOT 16 - RELATIVE DEPTHS

	PIPE INVERT	EFFECTIVE AREA BEGINNING	MAXIMUM TRENCH BOTTOM
INITIAL SYSTEM TRENCH A, B4C	4.0	4.0	7.0
1ST REPLACEMENT TRENCH A, B4C	4.0	4.0	7.0
2ND REPLACEMENT TRENCH A, B4C	4.0	4.0	8.0

LOT 16 - APPROXIMATE ELEVATIONS

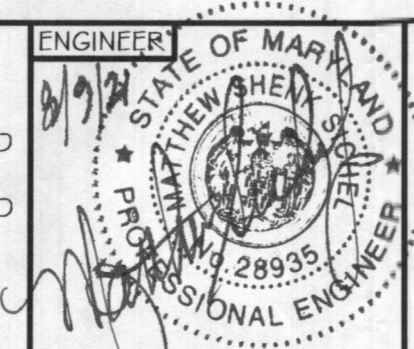
	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH A	522.7	518.7	515.7
INITIAL SYSTEM TRENCH B	522.0	518	515
INITIAL SYSTEM TRENCH C	521.6	517.6	514.6
1ST REPLACEMENT TRENCH A	520.1	516.1	516.1
1ST REPLACEMENT TRENCH B	521.4	517.4	514.4
1ST REPLACEMENT TRENCH C	521.7	517.7	514.7
1ST REPLACEMENT TRENCH D	518.8	514.8	511.8
1ST REPLACEMENT TRENCH E	518.5	514.5	511.5
2ND REPLACEMENT TRENCH A	519.3	515.3	511.3
2ND REPLACEMENT TRENCH B	519.1	515.1	511.1
2ND REPLACEMENT TRENCH C	518.9	514.9	510.9

OWNER:  
TODD A STUP  
2822 BRIDAL WREATH COURT,  
WOODBINE, MD 21797  
301.440.5180

DEVELOPER:  
N/A

DESIGNER:  
BRIAN COLLINS  
936 RIDGEBROOK RD,  
SPARKS, MD 21152  
410.316.7800

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREIN IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF. LICENSE NO. 28935 EXPIRATION DATE: 1/15/2023



ENGINEERS  
PLANNERS  
SCIENTISTS  
CONSTRUCTION MANAGERS

KCI TECHNOLOGIES  
936 RIDGEBROOK ROAD  
SPARKS, MARYLAND 21152  
TELEPHONE: (410) 316-7800  
FAX: (410) 316-7818

REVISIONS

NO.	DATE	DESCRIPTION	BY
	8/09/2021		

LOT 16 ONSITE SEWAGE DISPOSAL SYSTEM PLAN

BELLE HAVEN ESTATES  
2822 BRIDALWREATH COURT  
WOODBINE, MARYLAND 21797  
TAX #: 373804, SUBDIVISION: 1401

APPROVED 8/18/2021  
123

DRAWING NO.  
SHEET 1 OF 1  
KCI JOB NUMBER

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE